

ABSTRACT

A membrane switch comprises a first conductor (1) for electrically coupling the positive terminal of a power battery (33), a second conductor (2) for electrically coupling the negative terminal of the power battery (33), a set of paired, inter-digital shaped electrodes (3a, 3b) having a plurality of insulation bump dots (P) arranged in certain intervals, a first connector (4) with one end connected to the first conductor (1) and the other end connected to one of the paired, inter-digital shaped electrode (3a), a second connector (5) with one end connected to the second conductor (2) and the other end connected to another paired, inter-digital shaped electrode (3b), a conductive plate (6) disposed over the set of paired, inter-digital shaped electrodes such that when a user presses them, the set of paired inter-digital shaped electrodes is electrically connected to each other, and when a user releases them, they are electrically disconnected from each other, a protective layer (7) for protecting the paired, inter-digital shaped electrodes, the first and second conductors, the first and second connectors, and the conductive plate.